Activating personal voice

Critical thinking

Jordan Peterson.

Warm up

Thinking instruction
- general, infusion, immersion, and mixed

Overview

1.Rules [5]

2.Objectives [6]

3. Ask a question + extension question about the course [7]

4. Definitions [9]

5. Course skills learnt

6. Form groups
roles

Synthesize Definitions

Critical thinking and Socratic Questioning [SQ]

Synthesize Skills learnt

Socratic Questioning Stage 1 [B] [S]

Combine sentence & SQ + 2 SQ about course

Socratic Questioning Stage 2

SQ about skills learnt

Mind map (SQ) [19]

An business you would like to develop

Quantify learning outcomes [20]

Written & unwritten

Retrieved v self / baseline

Current level (bloom)

Self evaluation

Rules of the discussion

1. It is polite to actively listen and respond adding your own value to the conversation
2. Silence can sometimes be productive
3. There are no right and wrong answers
4. If you don't voice your opinion, valuable learning will be lost
5. Both, respect and seek the voice others; expounding a safe conversational space
6. The teacher doesn't have all the answers
7. Failure is one step closer to success

contents

Objectives

Core Skills

- Able to create Socratic questions
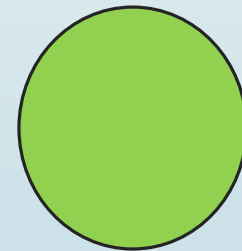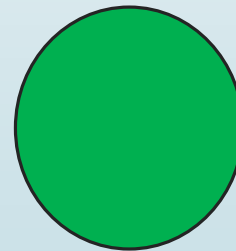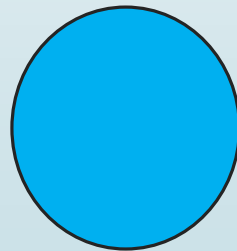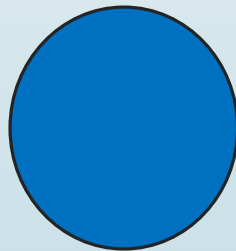
- Transfer critical thought to other environments

Ask me a question about the course

▶I am not allowed to answer yes or no!.... You must make me think!

Create a question about the course
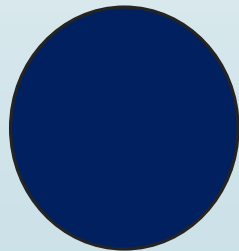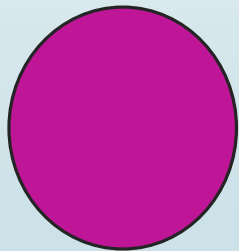
Critical thinking

Goal →

Outcome →
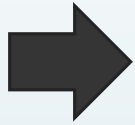
- "Critical thinking is the purposeful, self-regulatory judgment which results in interpretation, analysis, evaluation, and inference, as well as explanation of the evidential, conceptual, methodological, criteriological, or contextual considerations upon which that judgment is based. . . .

- The ideal critical thinker is *habitually inquisitive*, well-informed, trustful of reason, open-minded, flexible, fair-minded in evaluation, honest in facing personal biases, prudent in making judgments, willing to reconsider . . . and persistent in seeking results which are as precise as the subject and the circumstances of inquiry permit. (Facione, 1990a, p. 3)."

Abrami, P.C., Bernard, M. R., Evgueni Borokhovski, Anne Wade, Michael A. Surkes, Rana Tamim, and Dai Zhang (2008). Instructional Interventions Affecting Critical Thinking Skills and Dispositions: A Stage 1 Meta-Analysis. *Review of Educational Research* 78(4).

It is true that working out an answer requires critical thought…

▶ However, a more important instigator of critical thinking is the ability to ask the right question in a timely manner using words that the audience both understands and is motivated to respond to.

Bloom

➡ Memory

➡ Understanding

➡ Apply knowledge

➡ Analyse meaning

➡ Action steps

➡ Form an opinion

Socratic Questions

- Clarify meaning
- Probe assumptions
- Probe the evidence
- Look for different perspectives
- Question the consequences
- Question the question

http://www.umich.edu/~elements/probsolv/strategy/cthinking.htm

Sample Question I

- There are alternatives
- We have to explore
- The question surrounds the idea of teams
- The idea is how they are formed
- The question relates to the course

Possible Answer

- What would be some alternative methods that we could use to create teams in this course?

Combine the ideas to create a question II

- The students were in the Management and Information Culture Class
- The question is why /the question is the goal
- We had a task
- The task was weekly
- We had to synthesize
- The synthesis was information
- The knowledge was presented
- The presentation was about different topics
- The topics were pertinent

Possible Answer

- Why were the students in Margaret's Management in Education and Culture class required to synthesize the information presented by classmates each week?

Create your own question

Wrapping up

Research Skills

Synthesis

Creativity

Listening skills

Teamwork

Transfer

Strength in others

Time management

Negotiation skills

Speaking

Failure

Make them into questions
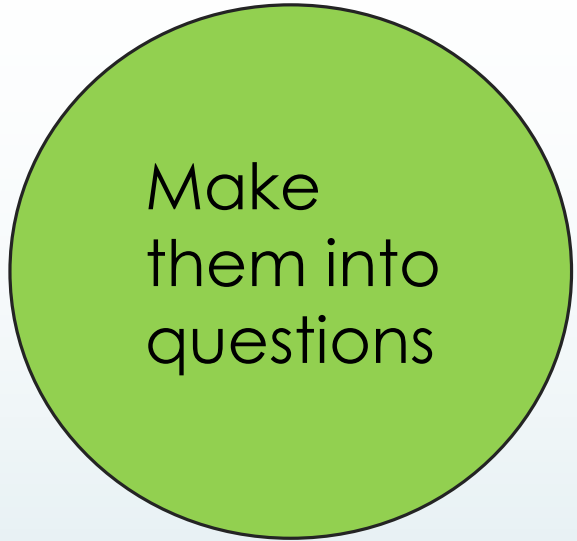
Mind map
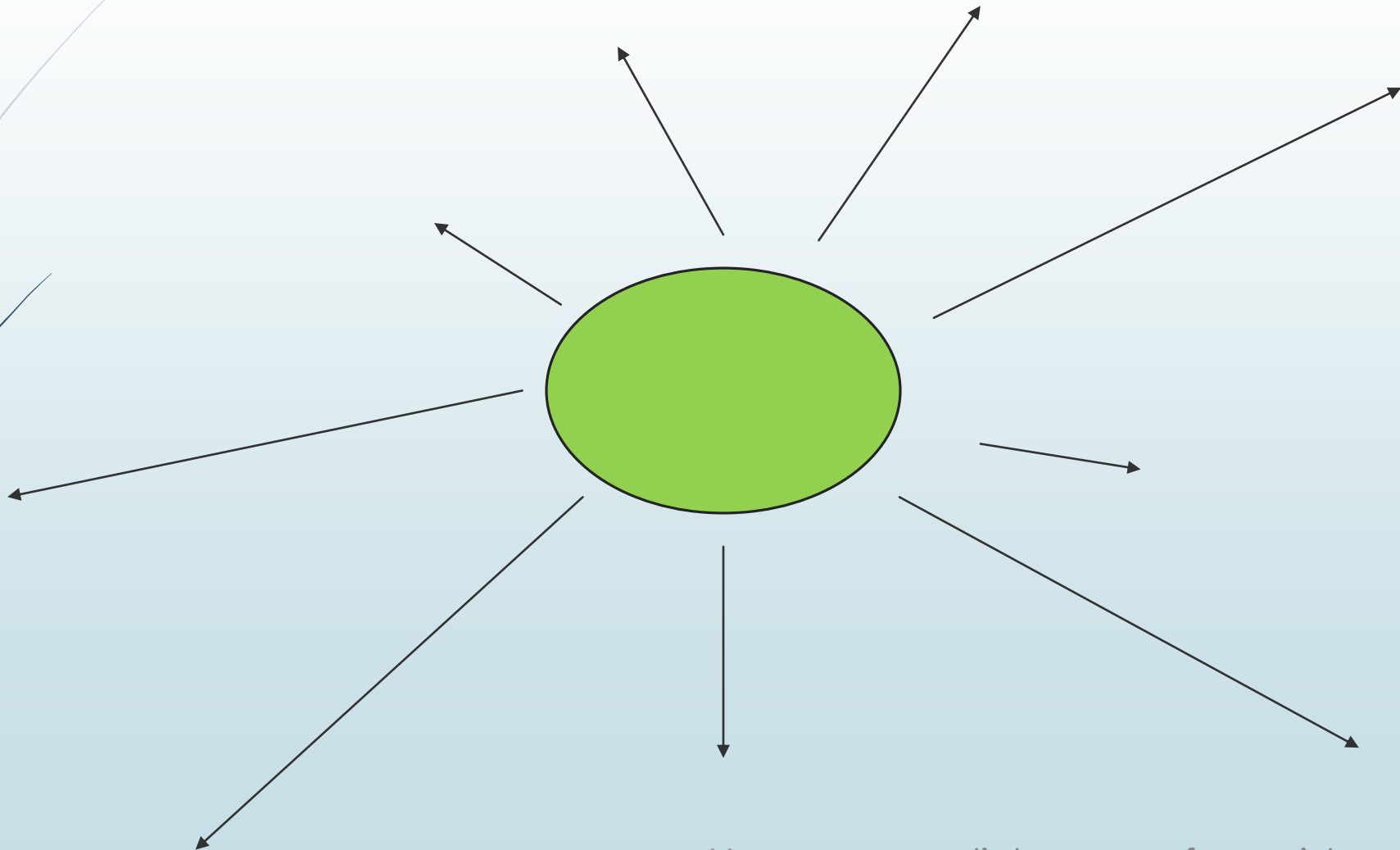
How can you link some of your ideas together?

Qualify learning your outcomes

Transfer?

ACTIVATING PERSONAL VOICE

MEMORY _ LEVEL 1

- List
- Show
- Describe
- Recall
- Collect
- Quote
- Identify
- Define
- Locate
- who, what where, when

LEVEL 1 (MEMORY)

- Blended learning can be described as

- The concept is a tool

- The outcome is critical thinking

- The outcome is agency

- The outcome is time saving for teachers

POSSIBLE ANSWER

- Sentence – Blended learning can be described as a time saving tool for teachers that produces critical thinking and agency in students

- Question – How could you describe blended learning?

COMPREHENSION _ LEVEL 2

- Outline
- Explain
- Predict
- Summarise
- Restate
- Compare
- Interpret
- Contrast
- Distinguish
- Discuss

(LEVEL 2) COMPREHENSION

- STEAM is an acronym

- It is a teaching technique

- It extends a concept

- The extension is across

- The lines are subject boundaries

- It is examined

- The examination is from different perspective

POSSIBLE ANSWER

- Sentence – STEAM is an acronym that extends and idea across subject boundaries to examine it from different perspectives.

- Question – Can you outline how STEAM is used as a teaching model?

APPLY KNOWLEDGE_ LEVEL 3

- Demonstrate
- Examine
- Illustrate
- Predict
- Calculate
- Classify
- Solve
- Show
- Construct

(LEVEL 3) APPLY KNOWLEDGE

Combine the ideas to create a sent
Then a question
Then create one of your own

- The legislation was passed into law

- The legislators were the Taiwanese government

- The field was education

- The law makes grade 12 education mandatory

- The ambition was to increase the educational lev

- The ramification was a jump

- The jumping was in student stress levels

POSSIBLE ANSWER

- Sentence – With the ambition of increasing educational levels, the Taiwanese government passed educational law, making year 12 education mandatory, although a ramification was a jump in student stress levels .

- Question – Can you predict how the Taiwanese government's 12 year compulsory education will impact students?

ANALYSE MEANING_ LEVEL 4

- Analyse
- Distinguish
- Compare
- Contrast
- Believe
- Assume
- Investigate
- Categorise
- Assume
- Separate

ANALYSE MEANING

Combine the ideas to create a sent
Then a question
Then create one of your own

- The view is comparative

- The view is of educational systems

- The locations are in Taiwan and in Singapore

- The basis is on the PISA test

- Taiwan is lagging behind

- The scale is international student rankings

- Further policy changes are necessary

- There will be a cost

POSSIBLE ANSWER

- Sentence – A comparative view of the educational systems between Taiwan and Singapore show that Taiwan lagging behind when measured using the PISA test, meaning that further reforms are necessary, although there could well be a cost.

- Question – What are the likely consequences of further educational policy reforms in Taiwan?

DEVELOP ACTIONABLE STEPS _ LEVEL 5

- Create
- Invent
- Compose
- Construct
- Plan
- Design
- Imagine
- Improve
- Propose

DEVELOP ACTIONABLE STEPS

Combine the ideas to create a sent
Then a question
Then create one of your own

- The location is Korea

- The government allows students to study for 6 months

- This study is independent

- There is an ambition

- The primary ambition is to reduce stress levels

- The secondary ambition is to create agency

- A further secondary ambition is to create creativity

POSSIBLE ANSWER

- Sentence – The Korean government allows students to study independently for 6 months with the primary ambition of reducing stress and the secondary aims of increasing agency and creativity.

- Question – What are the aims of the Korean governments 6 months free study for students?

FORM AN OPINION_ LEVEL 6

- Judge
- Select
- Choose
- Justify
- Debate
- Recommend
- Access
- Prioritise
- Determine
- Decide

DEVELOP ACTIONABLE STEPS

Combine the ideas to create a sent
Then a question
Then create one of your own

- The step is justified

- The step is forward

- The step is self-preservation

- The reason is to address dwindling international student numbers

- The Taiwanese government is pursuing a Southbound policy

- It is opening its doors

- The opportunity is for other Asian countries to study in Taiwan

POSSIBLE ANSWER

- Sentence – In a justified move for self preservation, the Taiwanese government has created a Southbound policy to address dwindling student numbers.

- Question – How has the Taiwanese government been able to address its declining international students numbers?

SOCRATIC QUESTIONS_ HIGHER ORDER

- Clarification

- Assumptions

- Reasons and evidence

- Viewpoints and perspectives

- Implementations and consequences

- Questions about the question

DEVELOP ACTIONABLE STEPS

Combine the ideas to create a qu
Then create one of your own

- The question is what
- The concerns are the consequences
- The stimulus is the community involvement
- The task is the education of students

POSSIBLE ANSWER

- Question – What are the consequences of community involvement in student education programs?